Sumalata IBM19CS409 IInd IA

1)

", mPost of

det get A Ist buted (en Presion):

entrellion = expression. split ("(")[1:]

entration = " (". join (entration)

extression = enfression. SPlit. (")") [:-17

engression = ")". Join (or Pression)

abolows = enfresion. Split (',')

other all buts

det get In: tal Predicate (entravion):

schurn empression. SPLit ("c")[0]

Led il constant (dax):

setum chax: "Suffer () & len (chax) == 1

det is vaxiable (chax);

return char. "slower() & len (char) == 1

det replace Attributes (ent, old, new);

att butes = get Alto butes (ext)

fre dicate = get In: talpredicate (enp)

les enden, val en enuneral (attributu):

of val = = old:

abolated (ander) = new

schur predicate + "(" + ", ". s'on (altributes) +

1

Alb

det apply (ent, Substitution);

los Sub Sthuton in Sub Sthutons!

new, old = Substitution

est = replace All buts (ent, old, new)

return enl

Let check occurr (vax, end):

of ent- find (vax) = = -1:

Jehrn Galle

return The

det getfisst Part (entres) ion):

attributer = get Attributes (entrevion)

atto ibute) = get Attributes (embression)

rem Extression = Predicate + "("+", ". jon

(attributes [1:]) +")"

Jehim nearExpression

Let unity (exp1, exp2):

if enfl==enf2.

rehim []

of is constant (enri) 4 is constant cex 23:

if expl! = exp2:

Print (f" Kenpi) + (exp2) and constants.

connot be unified")

return ()

If is constant (enr):

selum [ (enr), enr2))

ret dongtont (exp2); return [cexp2, exp1))

"if "is Vorsicolo M (enpl);

return [(enp2, enpl)] if not check occurs

(enpl, enp2) elle()

if "snariable (ent 2)".

return ((enl1, cnl2)) it not chedround (enl2, exl1) eN()

if getinital Predicate (enfi) != get Inital Predicate
(exf 2):

Ald

if inital substitution 1 = []:

tail 1 = apply (fail 1, in:tal Substitution)
tail 2 = apply (tail 2, in:tal Substitution)

remaining substitution & senaining sub stitution if not senoining substitution:

setura ()

del moin():

Print ("enter the first entression")
ei=inPut()

Print (" enter the Second expression")

e2 = '(nPut()

substitutions = unify (e1, e2)

Point (" The Substitution are: ")

Print ('C'1'. join (Substitution) br Substitution in Substitution))

main ()

fleto